GMOペパボ

How to distribute Ruby to the world

The secret of Release story

SHIBATA Hiroshi / GMO Pepabo, inc.

2018.04.27 RubyxElixerConf Taiwan 2018

self.introduce

self.introduce

```
=> {
  name: “SHIBATA Hiroshi”,
  nickname: “hsbt”,
  organizations: [“ruby”, “rubygems”, “asakusarb”,
“pepabo”, …],
  commit_bits: [“ruby”, “rake”, “rubygems”, “bundler”,
“rdoc”, “psych”,  “ruby-build”, “railsgirls”, “railsgirls-
jp”, …],
  sites: [“hsbt.org”, “ruby-lang.org”, “rubyci.org”,
“railsgirls.com”, “railsgirls.jp”],
}
```



ruby / ruby

Unwatch 1,248 Unstar 14,268 Fork 3,874

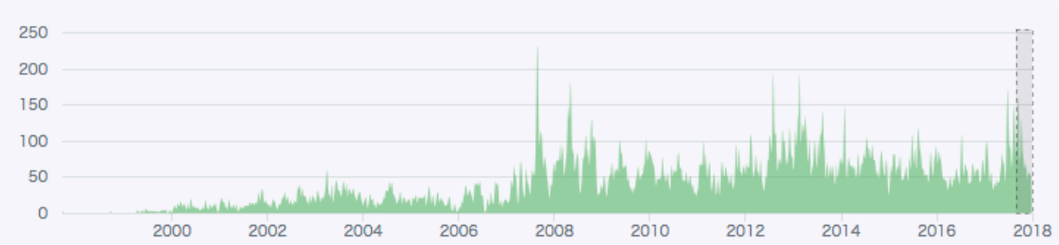
Code Pull requests 147 Insights Settings

- Pulse
- **Contributors**
- Community
- Traffic
- Commits
- Code frequency
- Dependency graph
- Network
- Forks

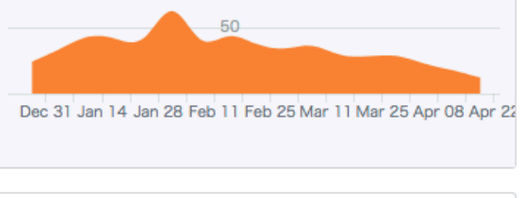
Dec 25, 2017 – Apr 27, 2018

Contributions: **Commits**

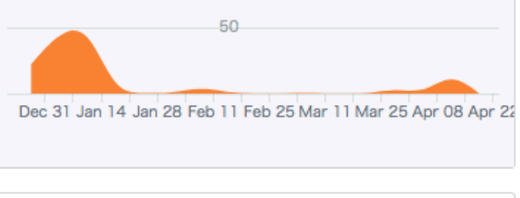
Contributions to trunk, excluding merge commits



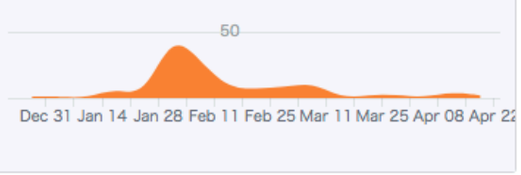
nobu #1
576 commits 7,321 ++ 4,021 --



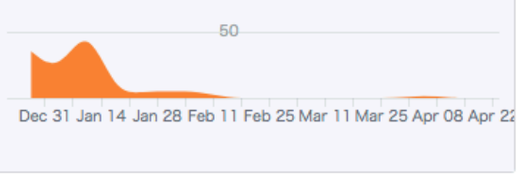
mame #2
148 commits 6,538 ++ 7,232 --



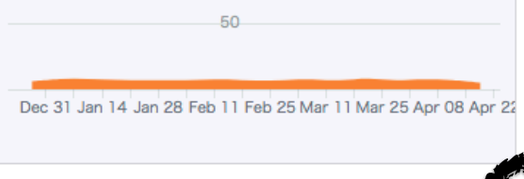
k0kubun #3
134 commits 4,894 ++ 1,199 --



shyouhei #4
130 commits 9,535 ++ 9,343 --



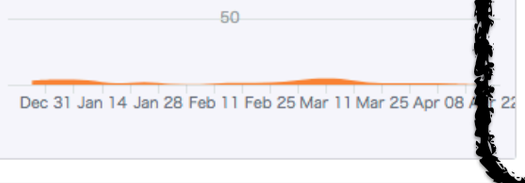
matzbot #5
120 commits 235 ++ 234 --



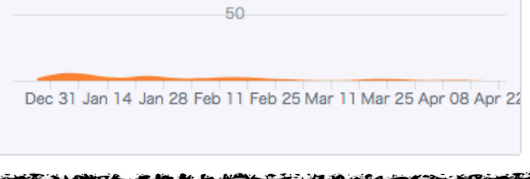
znz #6
52 commits 185 ++ 135 --



nurse #7
33 commits 571 ++ 516 --



hsbt #8
32 commits 1,955 ++ 969 --



README
Imports 426
meetup 389
hanami 1
misc 1
000_Log 2
(no category) 5

README.md

Edit



About (English)

Asakusa.rb is probably the most active regional Rubyist group in Japan. We're having weekly meetup on every '''Ruby

1.

What's Ruby core team?

Ruby Committer

Full-time commiters

Heroku




- matz
- n0kada

Money Forward



- shyouhei

Cookpad

- ko1
- mametter

Speee

- mrkn



Total 95 people + 2 bot

```
$ cat ~svn/.ssh/authorized_keys | awk '{print $5}' | sort | uniq | wc -l
97
```

Branch maintainers

trunk known as 2.6

@nurse: Release manager



2.5

@nagachika: Stable branch maintainer



2.4, 2.3

@unak: Old stable branch maintainer



Ruby 2.6

Ruby 2.6 timeframe

2/24: 2.6.0preview1 release

- **It contained MJIT feature**
- **see https://bugs.ruby-lang.org/issues/14235**

5/?: 2.6.0preview2 release

- **RubyGems 3.0**
- **Improve MJIT Performance**
- **?**

12/25: 2.6.0 final release

RubyKaigi 2018

May 31st (Thu) – Jun. 2nd (Sat)

Sendai International Center, Sendai, Miyagi, Japan

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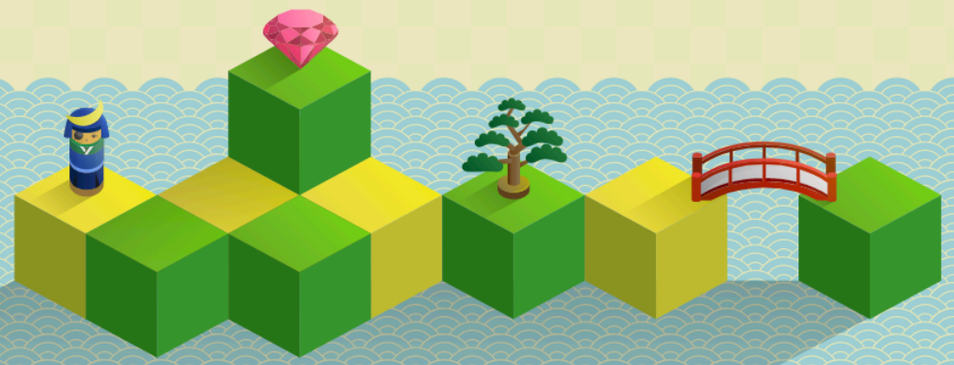
Policies Team Past Kaigis



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2.

How release the Ruby language

Version number and release cycle

We plan to release every Christmas day.

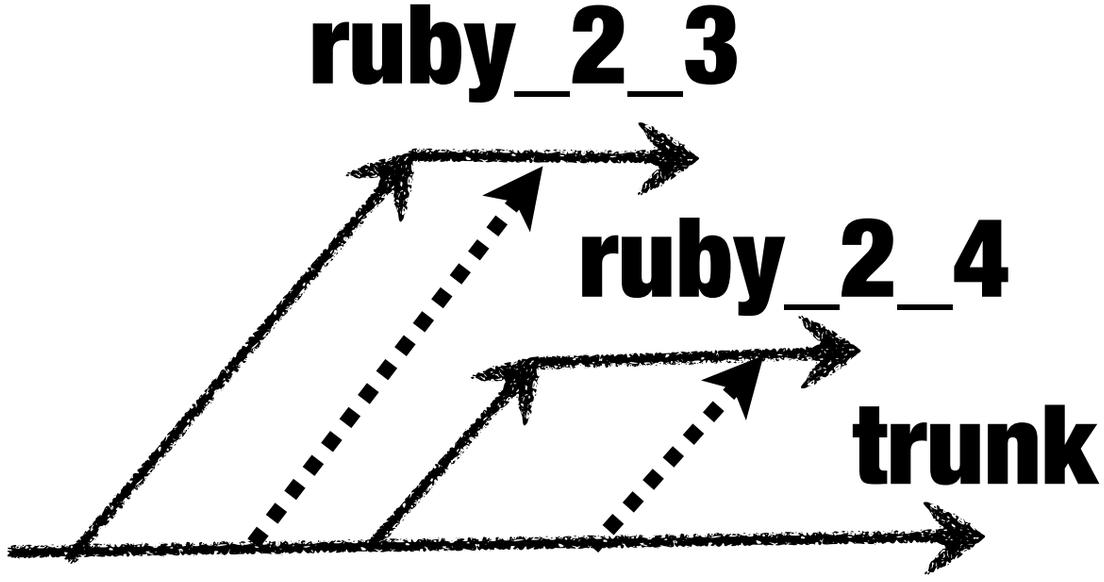
- 2.1.0: 2013/12/25
- 2.2.0: 2014/12/25
- 2.3.0: 2015/12/25
- 2.4.0: 2016/12/25
- 2.5.0: 2017/12/25
- 2.6.0: 2018/12/25(TBD)
- ...
- 3.0.0: 2020/xx/xx

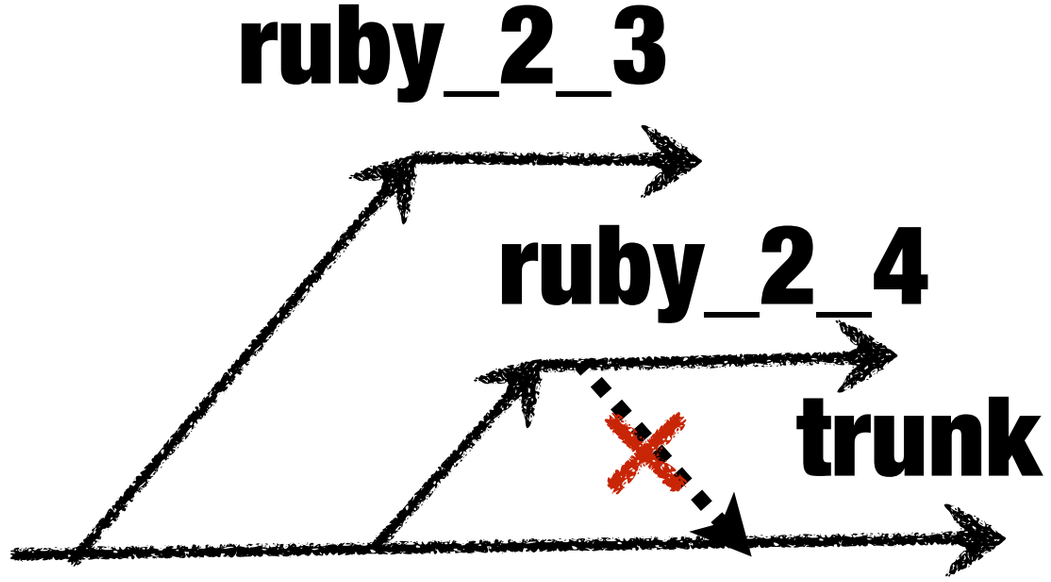


Backport

Ruby core backport model

We backport fixes to stable branch from trunk.
We do not merge fixes to trunk from stable branch

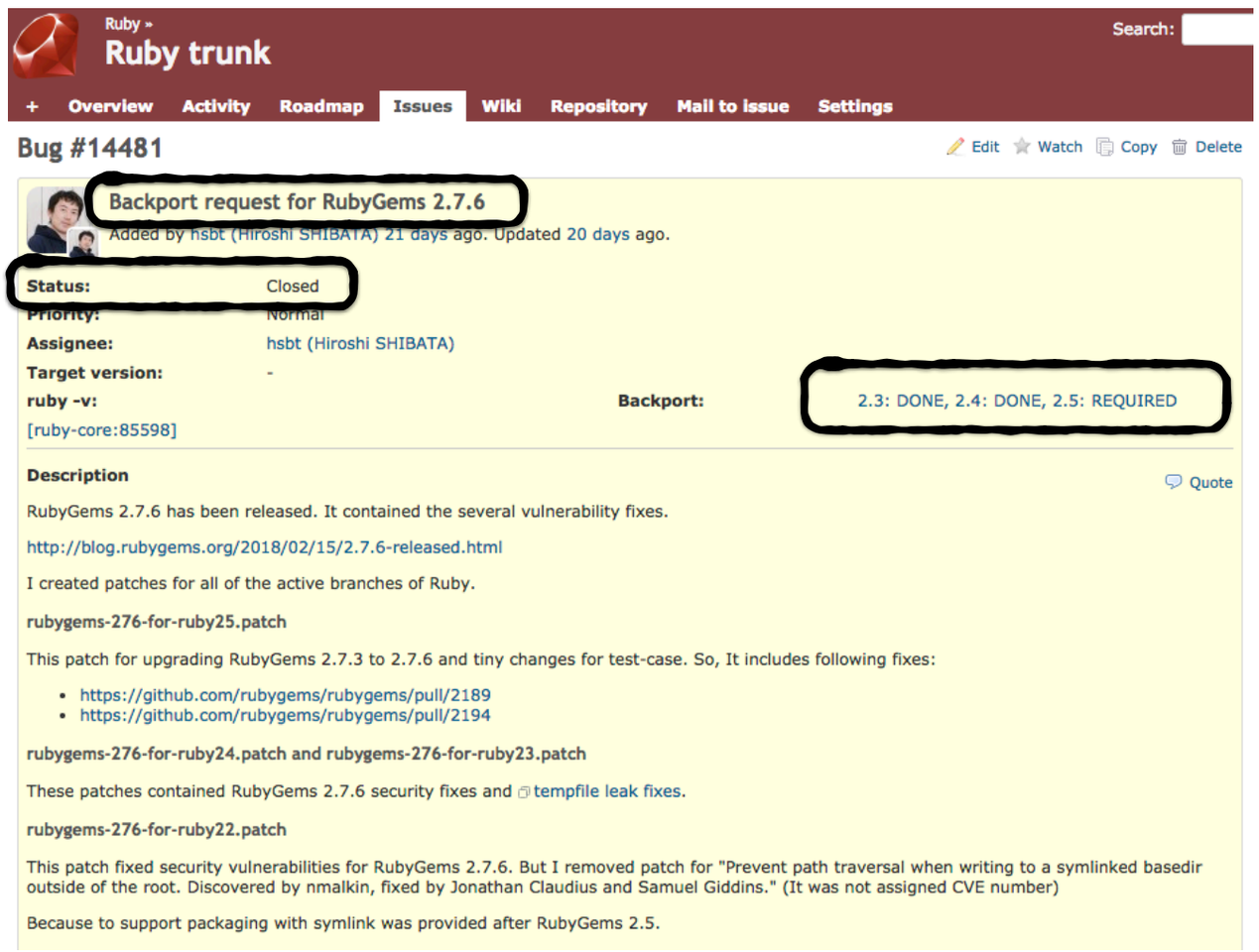




How do request to back port

We use to management backport's patch on redmine with specific rule.

- Write a revision number to Title or library version
- Set a status to "close"
- Fill backport field to "2.5:REQUIRED"



Ruby CI

What's Ruby CI

Ruby CI is a CI results collector for alternative platforms

- https://rubyci.org
- https://github.com/ruby/rubyci
- https://github.com/ruby/chkbuild

Ruby CI goal is entirely supports all of Ruby platform.



Server	Datetime	Branch	Option	Revision	test	test-all	rubyspec	Summary	Diff
Debian 7.11 i686	03-12 15:04	trunk		62724		failed		1177W 2[BUG] 2[SEGV] failed(test-all) fai...	diff:configure,t...
Debian 7.11 x86_64	03-12 15:00	trunk		62724				408W success	no diff
Debian 8.8 x86_64	03-12 15:30	trunk		62724		1F0E		404W 1F0E	diff:test-all
Debian 9.0 x86_64	03-12 15:30	trunk		62724				403W success	diff:process-st...
Debian 10.0(testing) x86_64	03-12 15:30	trunk		62724				403W success	diff:process-st...
Ubuntu armv7l eabihf	03-12 12:17	trunk		62724		failed		782W [BUG] [SEGV] failed(test-all) 2faile...	diff:process-st...
Ubuntu armv8	03-12 06:54	trunk		62724				409W success	diff:process-st...
Ubuntu 16.04 x86_64	03-11 15:30	trunk		62719		1F0E		398W 1F0E	diff:src,proces...
Ubuntu 18.04 x86_64	03-12 15:30	trunk		62724				399W success	diff:process-st...
Gentoo	03-12 15:30	trunk		62724				408W success	diff:test-all
CentOS 6.9 x86_64	03-12 15:30	trunk		62724				592W success	no diff
CentOS 7.3 x86_64	03-12 16:00	trunk		62726				413W success	diff:src,pflags,t...
Fedora 25 x86_64	03-12 15:30	trunk		62724				407W success	diff:process-st...
Fedora 26 x86_64	03-12 15:30	trunk		62724				420W success	diff:process-st...
Fedora 27 x86_64	03-12 15:30	trunk		62724				420W success	diff:process-st...
Amazon Linux 2017.03 x64	03-12 03:30	trunk		62724		0F1E		409W 0F1E	diff:src,proces...
Arch Linux	03-12 15:00	trunk		62724				416W success	diff:process-st...
ArchLinux+clang	03-12 16:02	trunk		62726			3F0E	404W rubyspec:3F0E	diff:src,proces...
OpenSUSE leap 42.3	03-12 12:30	trunk		62724				409W success	diff:process-st...
AIX 7.1 ppc	03-11 19:33	trunk		62722	failed(make)			12525W failed(make)	no diff
FreeBSD 11.0 zfs x64	03-12 15:30	trunk		62724				411W success	diff:configure
OS X El Capitan	03-12 14:45	trunk		62724				411W success	diff:configure
macOS Sierra	03-12 14:45	trunk		62724		1F0E		407W 1F0E	diff:configure,t...
icc16-x64	03-12 13:00	trunk		62724				402W success	no diff
Solaris 10x	03-12 15:18	trunk		62724		failed		778W 2[BUG] 2[SEGV] failed(test-all) fail...	diff:pflags,test...
Solaris 11x	03-12 14:24	trunk		62724		failed		794W 2[BUG] 2[SEGV] failed(test-all) fail...	diff:pflags,test...
Solaris 10s	03-12 08:19	trunk		62724		failed		778W 2[BUG] [SEGV] failed(test-all) faile...	diff:pflags,test...
Solaris 11s	03-12 14:25	trunk		62724		failed		794W 2[BUG] failed(test-all) failed(test/)	diff:pflags,test...
vc12-x64	03-12 14:12	trunk		62724				505W success	no diff
Debian 7.11 i686	03-12 01:46	2.5		p39 62632				172W success	diff:configure
Debian 7.11 x86_64	03-12 15:27	2.5		p39 62632				172W success	no diff
Debian 8.8 x86_64	03-12 15:57	2.5		p39 62632				163W success	no diff
Debian 9.0 x86_64	03-12 15:57	2.5		p39 62632				162W success	diff:process-st...
Debian 10.0(testing) x86_64	03-12 15:49	2.5		p39 62632				162W success	diff:process-st...
Ubuntu armv8	03-12 08:28	2.5		p39 62632				168W success	diff:process-st...

Ruby CI resources

Ruby CI goal is entirely supports all of Ruby platform. Ruby CI built by a lot of cloud platforms (20-30 VMs)

- **AWS**
- **Azure**
- **GCP**
- **DigitalOcean**
- **on-premise servers(macOS)**
- **opencsw(Solaris)**



Packaging & Release

Release time

We build a tar packages from svn repository used `tools/make-snapshot`. After that, We will put them to ftp server.

We have announce following resources.

- **https://www.ruby-lang.org (and RSS)**
- **Mailing-list: ruby-list (https://lists.ruby-lang.org)**
- **Twitter: @rubylangorg**



Security Release

Security release

We received reports about buffer overflow/ underflow, memory leak, directory traversal etc…

We hard to fix and release these security issue. so all of release maintainer are volunteer work.

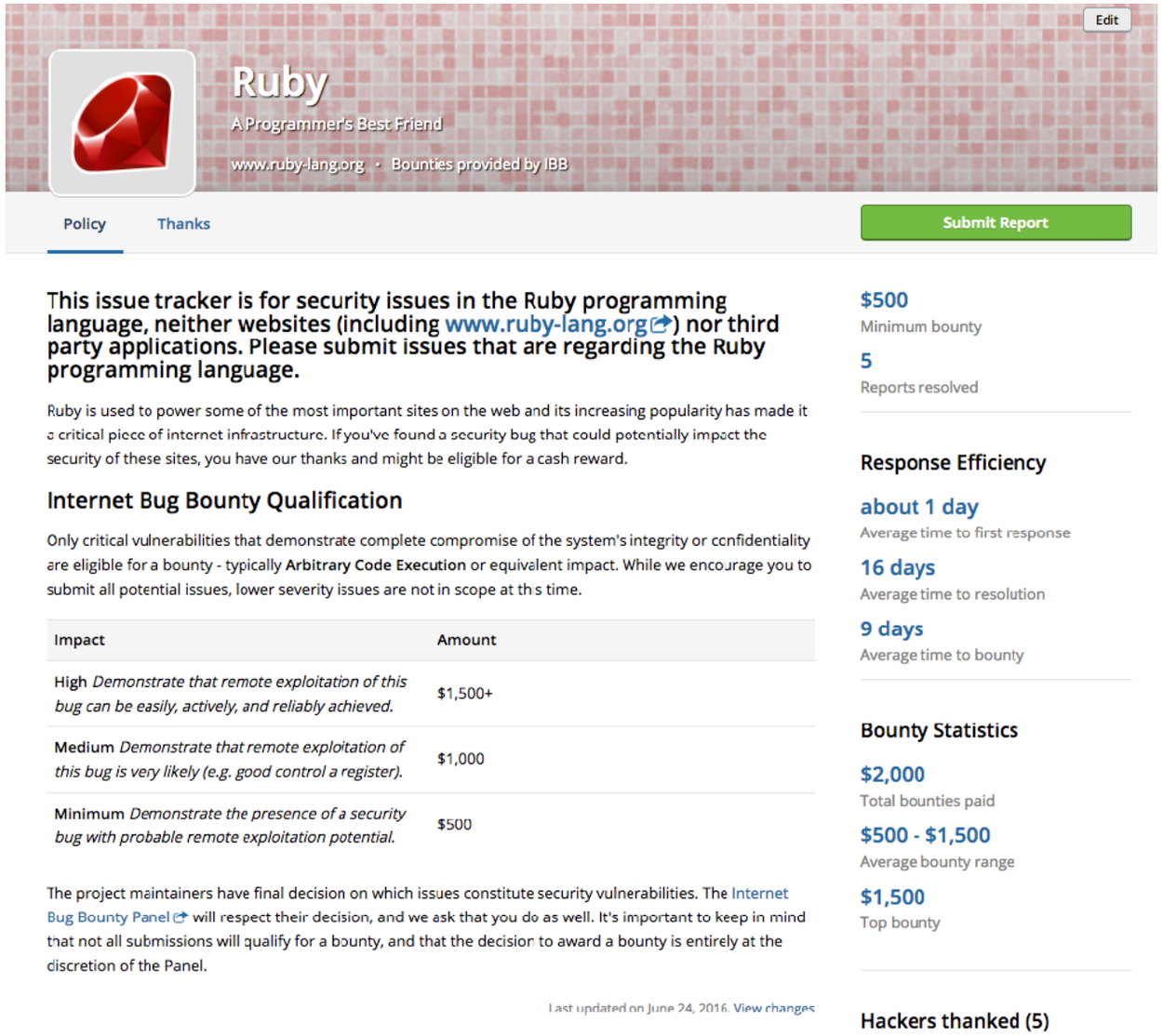
We have “security@ruby-lang.org” for security report.

HackerOne

We've been use https://hackerone.com/ruby

It has bounty program provided by IBB.

We accepts to security report via hackerone too.



3.

What's *.ruby-lang.org?

What does mean “official”?

“official” means “Matz controllable”

Un-controllable examples:

- ruby-doc.org
- rubygems.org
- bundler.io
- Ruby version manager(rvm/rbenv/chruby)



*.ruby-lang.org

www.ruby-lang.org

Official Website of Ruby language.

see http://github.com/ruby/www.ruby-lang.org

svn.ruby-lang.org

Main repository of Ruby source. (Not git !!!)

bugs.ruby-lang.org

Official issue tracker build by redmine.



*.ruby-lang.org

ftp.ruby-lang.org

Site of distribute official package

lists.ruby-lang.org

Site of Mailing-list and MX records.

docs.ruby-lang.org

Hosted document generated from RDoc on Ruby source code and rubima project. Rubima project is a Japanese Documentation about ruby languages.

CDN

Our site and package distribution were supported by fastly.

- **www.ruby-lang.org**
- **cache.ruby-lang.org**
- **docs.ruby-lang.org**

Statistics of our CDN:

- **Access ratio: USA: 44.6%, EU: 18.0%, Asia: 31.0%, Australia: 2.1%, Latin America: 3.7%, South Africa: 0.04%**
- **Bandwidth: 7,203 GB/month**



Sponsors of the Ruby language

- **heroku:**
  Unlimited dyno resources for websites
- **fastly:**
  OSS plan of CDN for *.ruby-lang.org
- **NaCl:**
  Network and Compute resources for website
- **Microsoft:**
  Provides Azure environment

Sponsors of the Ruby language(2)

- **Ruby Association:**
  Grant of development(for AWS and Ruby CI)
- **Nihon Ruby no Kai:**
  macOS Server * 2
  Grant of development(for Windows platform)
- **Sugaya research laboratory:**
  Network resources for macOS Server

4.

rbenv/ruby-build

Source distributeion

Binary distribution

- Windows: RubyInstaller2
- Linux: apt/yum/dnf
  brightbox/software collection
- macOS: System binaries/homebrew/MacPorts

Source distribution

- Package: cache.ruby-lang.org
- Source code: svn.ruby-lang.org or github



What's difference source package and others

Package(*.tar.gz)

- Pre-build transcode
- Generate configure script
- Do not need gnu tools without complier like autoconf, bison

Source

- Need to gnu tools
- Need to ruby :)



Start to build Ruby language from source

You can invoke language tests with the following instructions:

```
$ git clone https://github.com/ruby/ruby
$ cd ruby
$ autoconf
$ ./configure —disable-install-doc
$ make -j
$ make install
```



Ruby package manager

RVM

- To support Binary installation
- Applied Custom patchset
- Automatic installation of latest rubygems and bundler

rbenv/ruby-build

- Modify environment variables.
- I’m also maintain them

chruby/ruby-install

- Modify a few environment variables.



rbenv/ruby-build

You can get them from

- homebrew
- git clone

```
$ rbenv install 2.5.0
$ rbenv install 2.6.0-dev
$ RUBY_CONFIGURE_OPT=—disable-install-doc rbenv install 2.4.3
$ rbenv install jruby-9.1.16.0
$ RUBY_CONFIGURE_OPT= rbenv install rbx-3.89
```



5.

Ruby snap

What's snap?

"Snaps are containerised software packages that are simple to create and install. They auto-update and are safe to run. And because they bundle their dependencies, they work on all major Linux systems without modification."

- **https://snapcraft.io/**



What's snap?

https://build.snapcraft.io/user/ruby/snap.ruby

- **You can use the latest version of Ruby like 2.5.1 without ruby version manager like RVM/rbenv/chruby**
- **It package contained bundler gem, You can use it without `gem install bundler`**
- **You can keep to clean your linux environment.**



Deep dive in Ruby snap.

```
$ which -a ruby
/snap/bin/ruby

$ ls /snap/bin/
ruby  ruby.bundle  ruby.gem  ruby.irb  ruby.rake  ruby.rdoc  ruby.ri

$ ls -lA /snap/bin/ruby
lrwxrwxrwx 1 root root 13 Apr 24 12:41 /snap/bin/ruby -> /usr/bin/snap

$ ls /snap/ruby/current
bin                      command-irb.wrapper    command-ri.wrapper     lib     snap
command-bundle.wrapper   command-rake.wrapper   command-ruby.wrapper   meta
command-gem.wrapper      command-rdoc.wrapper   include                share

$ cat /snap/ruby/current/command-ruby.wrapper
#!/bin/sh
exec “$SNAP/bin/ruby” "$@"
```

Current Status

https://github.com/ruby/snap.ruby

- Ruby snap is `candidate` status yet.
- We need to test for production usage. But We still have some issues about building native extension.
- After `stable` release, You can use Ruby binary of stable release in Linux via Snap.

To be continued…

6.

git.ruby-lang.org

git.ruby-lang.org

It's available under the ruby-lang.org now!!!

https://git.ruby-lang.org

- **It's READONLY**
- **It's built by cgit web interface,**
- **It's integrated with redmine**
- **It's still experimental status. I'm preparing to it now.**

index : ruby.git

The Ruby Programming Language

summary refs log tree commit diff

Branch	Commit message	Author
trunk	win32/configure.bat: stop when setup failed	nobu
ruby_2_4	merge revision(s) 60384: [Backport #13887]	nagachika
ruby_2_5	merge revision(s) 62606,62607: [Backport #14557]	naruse
ruby_2_2	merge revision(s) 62422,62436: [Backport #14481]	usa
ruby_2_3	merge revision(s) 62422,62436: [Backport #14481]	usa
ruby_2_1	* 2016-04-22	svn
ruby_2_0_0	merge revision(s): 53153 and 23405@ruby_1_9_1	usa
ruby_1_9_3	merge revision(s) 48402:	usa
ruby_1_9_2	bump patchlevel	hone
ruby_1_8_7	merge revision(s) 44717:	naruse
[...]		

Tag	Download	Author
v2_6_0_preview1	commit ce0e3fc1b1...	naruse
v2_5_0	commit 4e0a512972...	naruse
v2_3_6	commit 2551734626...	usa
v2_2_9	commit 72113d58cd...	usa
v2_4_3	commit a5ec07c73f...	nagachika
v2_5_0_rc1	commit c6f401b6b8...	naruse
v2_5_0_preview1	commit f11fbd79fd...	naruse
v2_2_8	commit f3c3c788aa...	usa
v2_3_5	commit e07613e27e...	usa
v2_4_2	commit 595af866bb...	nagachika
[...]		

Age	Commit message	Author
116 min.	win32/configure.bat: stop when setup failed HEAD trunk	nobu
3 hours	vm.c: refined error message	nobu
4 hours	* 2018-03-15	svn
4 hours	Unconditionally define `TRACE_INSN_P`	tenderlove
13 hours	configure.ac: basic libs	nobu
15 hours	test_weakmap.rb: fixing CI failures	nobu
24 hours	quote symbols	nobu
36 hours	* 2018-03-14	svn
36 hours	Fix typos [ci skip]	kazu
38 hours	test/ripper/test_lexer.rb: add test for r62743	k0kubun
[...]		

What's issues of migration of Git



Issue Tracker:

- **Redmine on Heroku couldn't use git repository.**

Strategy

- **How migrate git or github from svn (now resolved!)**



Toolchain:

- **Packaging script depends on Subversion repository and API.**

Where do we go from here?

1. We migrate a toolchain like package script to git from svn.
2. We will ship ruby package from git.ruby-lang.org.
3. We will accept write commit on git.ruby-lang.org.
4. We will accept to merge pull-request on GitHub and sync them to git.ruby-lang.org (final goal)



GMOペパボ



Hiroshi SHIBATA @hsbt

https://www.hsbt.org

Executive Officer CPO(Chief Productivity Officer)

Director of Business Process Re-engineering Office

at GMO Pepabo, Inc. @pepabo

We are hiring!

in Taiwan

GMOペパボ株式会社

We are hiring!!1

- **Company Name: GMO Pepabo, Inc.**
- **Location: HQ Office: Shibuya, Tokyo. Fukuoka Office: Tenjin, Hakata.**
- **Segment: Shared Hosting, Domain Registration, E-Commerce platform, The marketplace for handmade item.**
- **Job Title: Junior/Senior Web/ Mobile developper**

